



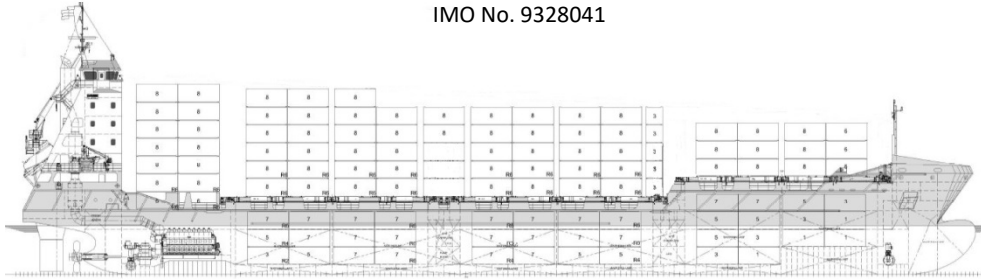
MV "Mirror"

Gearless cellular container vessel

Class: DNVGL 100 A5 E3 Container ship Solas-II-2, Reg.19 IW, MC E3 AUT

Built 2006 at Damen Shipyard (No. 862)

IMO No. 9328041



Main Dimensions

Length over all	140,59 m
Length between perpendiculars	130,60 m
Breath moulded	21,80 m
Depth to main deck	9,50 m
Scantling draft	7,33 m
Deadweight	9.300 t
Gross Tonnage	7.852
Net Tonnage	3.363
(according to Class Certificate)	

Main Engine

Caterpillar MaK 9M43C (4 stroke), 8.400 kW at 500 rpm

Auxiliaries

2 Caterpillar C18, 469 kW at 1.800 rpm
 1 Shaft Generator 1.600 kW
 1 Emergency Diesel Caterpillar 3056, 112 kW at 2200rpm

Speed

range about 16kn to 18,5kn

Tank Capacity

HFO 941 m³, MDO 97 m³, Ballast 4598 m³ (all about)

Communication

Inmarsat Standard C – Telex, Data
 Inmarsat Fleet 77 - Phone, Fax, Data
 Iridium Open Port – Phone, Data
 GMDSS fitted

Nautical Aids

Magnetic compass, Gyro, HCS, GPS, RDX, RDS, ARPA, ECDIS, AIS, VDR, LOG, ES, STGTEL, DSL, LRIT, BNWAS (according to Class Certificate)

Other outfit

Bowthruster Wärtsilä 700 kW electrically driven,
 Sternthruster Wärtsilä 500 kW electrically driven,
 2 combined windlass / self-tensioning mooring winches
 2 self-tensioning mooring winches
 1 pitch propeller
 Highest Ice Class E3

Container intake

Subject to vessel's stability / trim / permissible weight		
Deck	606 units 20'	or 264 unit's 40' + 78 units 20'
Holds	206 units 20'	or 97 unit's 40' + 12 units 20'
Total	812 units 20'	or 361 unit's 40' + 90 units 20'

Stability

Homogenously loaded with containers of 14 t each with center of gravity at 45% of container height / IMO stability criteria
 515 TEU

Container fittings

The vessel is designed to accommodate containers of following dimensions:
 20' / 40' as indicated above
 30' total 511 units (135 holds + 376 deck) with Cell guides removed
 45' total 329 units (97 holds + 232 deck)
 48' total 40 units on deck only
 49' total 40 units on deck only

All restraint devices and necessary loose securing / lashing material for stowage of 20' containers are on board.

On deck vessel is equipped with fixed restraint devices and necessary loose securing / lashing material for a full load up to and including 6th tier.

45' and 48' containers can be carried on deck hatch covers No. 2, No. 3, No. 6 and No. 7 from 2nd tier except side-end container loaded from third tier. 48' containers should be carried on every other bay. Stowage 142 unit's 45' + 230 unit's 40' + 74 unit's 20'

Permissible Stack weights

Hold 1 Tank Top	110 t/135t/120t/125t	per 20'/30'/40'/45' stack
Hold 2/3 Tank Top	80 t/100t/105t/105t	per 20'/30'/40'/45' stack
Hatch Cover	60 t / 70t/ 90t/ 95t	per 20'/30'/40'/45' stack
On Moin Deck	90t/100t/ 90t/ 95t	per 20'/30'/40'/45' stack
Distribution of containers weights within a single 20'/30'/40'/45' stack to comply with the Cargo Securing Manual approved by Class Society.		

Hatches

3 hatches / 3 holds covered by hydraulic foldable steel hatch-covers

Reefersockets

120 reefer sockets on deck
 60 reefer sockets in holds
 450 V, 32A, 60 Hz, 3 phases

All figures above are approximate and believed to be correct, but not guaranteed. For more detailed technical information see capacity plan and specific T/C description which are available on request.